# Site 008 Track 1 Decision Documentation Package, OU 10-08

## DECISION DOCUMENTATION PACKAGE COVER SHEET

#### Prepared in accordance with

# TRACK 1 SITES: GUIDANCE FOR ASSESSING LOW PROBABILITY HAZARD SITES AT THE INEEL

Site Description:

Debris Near Intersection of Highways 33 and 22

Site ID:

800

Operable Unit: 10-08

Waste Area Group: 10

#### I. SUMMARY - Physical description of the site:

Site 008 is a debris pile located within the boundaries of the INEEL approximately 100 yards north of Highway 33, 3.2 miles east of the Highway-33/22 intersection and 1.6 miles west of the Lincoln Road/Highway 33 intersection. The site is in the northern portion of the INEEL in close proximity to the Birch Creek Playas. Test Area North (TAN) is the closest facility located approximately five miles to the northeast of Site 008. This site was originally listed as part of an environmental baseline assessment in 1994 and identified as a potential new waste site in 1995. In accordance with Management Control Procedure-3448, *Reporting or Disturbance of Suspected Inactive Waste Sites*, a new site identification form was completed for this site. As part of the process, a field team wrote a site description, and collected photographs and global positioning system (GPS) coordinates of the site (the GPS coordinates are

. The GPS coordinate system is listed as NAD 27, Idaho East Zone, State Plane Coordinates. The new site identification process also included a search and review of existing historical documentation.

The investigation revealed that Site 008 appears to be an old pioneer homestead containing a wood stove, empty rusted cans, barbed wire, weathered wood, lantern pieces, china dishes and two well drilling bits with attached pipe and well screen. The site encompasses an area approximately 30 ft by 30 ft. Site assessment team members also noted a depression located nearby (approximately 6 ft by 15 ft in diameter) containing standing water and various weed and grass species. It was noted that there were no potentially significant environmental conditions associated with the site.

Interviews with INEEL Cultural Resource Management personnel revealed that the site is considered a pioneer homestead or canal builder's site likely having existed since the 1920's or 1930's. There is no visual evidence of any hazardous substances present at the site. The vegetation surrounding the area is well developed and undisturbed. No field screening or sample data exist for this site.

#### **DECISION RECOMMENDATION**

#### II. SUMMARY - Qualitative Assessment of Risk:

There is no evidence that a source of contamination exists at this site, nor is there empirical, circumstantial, or other evidence of contaminant migration. The reliability of information provided in this report is high. Field investigations, interviews with Cultural Resources personnel, and photographs revealed no visual evidence of hazardous substances that may present a danger to human health or the environment. Therefore, the overall qualitative risk at this site is considered low.

#### III. SUMMARY - Consequences of Error:

#### False negative error:

The possibility of contamination levels at this site being above risk-based limits is remote. Field surveys and visual observations of the debris and surface soil showed no evidence of contamination. If hazardous materials and wastes were placed into this area, evidence such as stained soil, odors, loss of vegetation, fibrous materials, and other indications of contamination would have been noted during site visits.

#### False positive error:

If further action were completed at this low risk site, funds expended would exceed the environmental benefit. Surface soil sampling and analysis for organic compounds, metals, radionuclides, and other hazardous constituents would be needed to verify the presence or absence of contamination. Based on existing information, there is no need for further action at this site.

#### IV. SUMMARY - Other Decision Drivers:

INEEL Cultural Resource Management personnel determined that this site meets the requirements of a cultural resource. Prior to completing further action at this site an intensive pedestrian inventory of areas proposed for cleanup would be conducted. A survey would be required to: identify and evaluate cultural properties within the area of potential effects for cleanup activities, conduct a preliminary assessment of the potential impact of cleanup on any identified properties, and develop preliminary avoidance strategies or data recovery plans if necessary to avoid any adverse effects.

#### **Recommended Action:**

It is recommended that this newly identified site be classified as No Further Action. Field investigations, interviews, historical process knowledge, and photographs indicate it is unlikely that hazardous or radioactive materials were generated or disposed of at this site. It is located in a remote, abandoned area with no viable pathways or receptors. Test Area North (TAN) is the closest facility located approximately five miles northeast of the site. There is no visual evidence of contamination; in fact, vegetation is relatively diverse, especially in the 6 ft by 15 ft depression. There is nothing present at this site that would indicate evidence of contaminant migration, or historical or threatened releases of hazardous substances, pollutants or contaminants that may present a danger to human health or the environment.

Signatures:	# Pages:	16	Date: February 26, 2001	
Prepared By: Cary W. Richardson, WPI Marilyn Paarmann, WPI		DOE W	AG Manager:	
Approved By:		Indepe	ndent Review:	

	DECISION STATEMENT (DOE RPM)
Date Received:	5/16/05
Disposition:	site 008, 00 10-08
	This site is trash pile from an old homestead site which requires no further action and no institutional controls

Date:	5/19/05	# Pages:
Name:	Hatteleen & Hain	Signature:

## DECISION STATEMENT (EPA RPM)

Date Received: 6-15-05 5, te 008

Disposition:

Site 008 which is a debits file does not appear to have any evidence that CERCHA tazardous Substances were lisposed of. EPA recomment this site Be classified as no action.

Date: 1-20 - 85
Name: DENNIS Faulk

# Pages: Signature:

# DECISION STATEMENT (IDEQ RPM)

,·	,
Date Received: May 8, 2002	
Disposition:	
	,
Site 008	
Site 008 is a debris pile located about 3.2 miles and about 5 miles southwest of TAN. The debrhomestead and consists of a wood stove, rusted lantern pieces, china dishes, two well points, ar water at the time of the inspection. The depres diameter and weeds and grasses were growing. There is no visual evidence of hazardous substascreening or sample data for the site.	ris appears to be consistent with an old cans, weathered wood, barbed wire, and a nearby depression that held standing sion is about 6 feet deep and 15 feet in in the depression.  ances at the site. There are no field
The State recommends this site for No Further	Action.
•	
Date: 10,2004	# Pages:
Name: Parat F. Koch	Signature: J. Hak

PROCESS/WASTE WORKSHEET SITE ID: <u>008</u>	ORKSHEET	PROCESS: <u>Debris Pile</u> WASTE: <u>Homestead/Domestic Debris</u>	mestic Debris	
Col 1 Processes Associated With This Site	Col 2 Waste Description & Handling P	& Handling Procedures	Col 3 Description 8 Associated w	Col 3 Description & Location of any Artifacts/Structures/Disposal Areas Associated with this Waste or Process
Debris pile containing materials discarded	Waste was abandoned by homestead the early part of the twentieth century	Waste was abandoned by homesteaders in the early part of the twentieth century	Artifact:	Domestic Debris
from a homestead site.			Location:	Less than 100 yards north of Highway 33, 3.2 miles east of Highway-33/22 intersection and 1/6 mile west of the Lincoln Rd/Highway 33 intersection.
			Description:	Description: Domestic artifacts include a wood stove, empty rusted cans, barbed wire, weathered wood, lantern pieces, china dishes, and two well drilling bits with attached pipe and well screen.

CONTAMINANT WORKSHEET					
SITE ID: 008					
PROCESS: (Col 1) <u>Debris Pile</u>	WASTE: (Col 2) Homestead Debris	bris			
Col 4 What Known/Potential Hazardous Substance/Constituents are Associated with this Waste or Process?	Col 5 Potential Sources Associated with this Hazardous Material	Col 6 Known/Estimated Concentration of Hazardous Substances/ Constituents	Col 7 Risk-based Concentration	Col 8 Qualitative Risk Assessment (hi/med/low)	Col 9 Overall Reliability (high/med/low)
None	Soil	None	Not Applicable	Low	High

### Question 1. What are the waste generation processes, locations, and dates of operation associated with this site?

#### Block 1 Answer:

Site 008 appears to be an old pioneer homestead containing a wood stove, empty rusted cans, barbed wire, weathered wood, lantern pieces, china dishes, and two well drilling bits. The INEEL Cultural Resources Management determined that the site has likely existed since the 1920s or 1930s. The site is located within the boundaries of the INEEL approximately 100 yards north of Highway 33, 3.2 miles east of the Highway-33/22 intersection and 1.6 miles west of the Lincoln Road/Highway 33 intersection. The site is in the northern section of the INEEL in close proximity to the Birch Creek Playas. Test Area North (TAN) is the closest facility located approximately five miles northeast. The site encompasses an area approximately 30 ft by 30 ft. A depression approximately 6 ft by 15 ft in diameter with standing water and various weed and grass species is located nearby. There are no known potentially significant environmental conditions associated with the site.

### Block 2 How reliable are the information sources? X\_High \_Med \_Low (check one) Explain the reasoning behind this evaluation.

Interviews with INEEL Cultural Resource Management and Environmental Restoration Environmental Safety and Health (ER ES&H) personnel revealed that the site is a historic homestead. The materials found at the site are domestic in nature and pose no hazard to the site overall. One interviewee stated that the well drilling bits are still available today in most farming/hardware stores.

### Block 3 Has this INFORMATION been confirmed? $\underline{X}$ Yes \_No (check one) If so, describe the confirmation.

Interviews were conducted with ER ES&H personnel during an environmental assessment in 1994. Interviews conducted with INEEL Cultural Resource Management personnel confirm that the site is an early twentieth century homestead site and that the debris left there is domestic in nature. Photographs confirm the types of debris present at the site.

#### Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

No available information	[1		Analytical data	[]
Anecdotal	[X]	5	Documentation about data	[]
Historical process data	[X]	2	Disposal data	ĪĪ
Current process data	ĪĪ		Q.A. data	[]
Photographs	[X]	3	Safety analysis report	Ü
Engineering/site drawings	ĪĪ		D&D report	Ü
Unusual Occurrence Report	ij		Initial assessment	[X] 4
Summary documents	Ü		Well data	[]
Facility SOPs	ΪÌ		Construction data	[]
OTHER	ΪÌ			

Question 2. What are the disposal processes, locations, and dates of operation associated with this site? How was the waste disposed?
Block 1 Answer:
Interviews with INEEL Cultural Resource Management personnel revealed that Site 008 is a historic resource. The site is located within the boundaries of the INEEL approximately 100 yards north of Highway 33, 3.2 miles east of the Highway-33/22 intersection and 1.6 miles west of the Lincoln Rd/Highway 33 intersection. Site investigations indicate that the debris resulted from homesteaders living on what is now INEEL property in the early twentieth century.
Block 2 How reliable are the information sources? X_High _Med _Low (check one) Explain the reasoning behind this evaluation.
Interviews with INEEL Cultural Resource Management personnel revealed that this site is a pioneer homestead now designated as a cultural resource.
Block 3 Has this INFORMATION been confirmed? X Yes _No (check one) If so, describe the confirmation.
Interviews were conducted with INEEL Cultural Resource Management personnel confirming the historical value of this site, the processes involved, and the estimated age of the debris. Photographs confirm the types of debris present at the site.
Block 4 Sources of Information [check appropriate box(es) & source number from reference list]
No available information [] Analytical data [] Anecdotal [X] 5 Documentation about data [] Historical process data [X] 2 Disposal data [] Current process data [] Q.A. data [] Photographs [X] 3 Safety analysis report [] Engineering/site drawings [] D&D report [] Unusual Occurrence Report [] Initial assessment [X] 4 Summary documents [] Well data [] Facility SOPs [] Construction data [] OTHER

Question 3. Is there evidence that a source exists at this site? If so, list the sources and describe the evidence.
Block 1 Answer:
There is no evidence that a source exists at Site 008. There is no evidence of stained or discolored soil in the area, nor visual evidence of disturbed vegetation. The debris has been identified as being domestic in nature and was most likely abandoned by early homesteaders. The potential source of contamination for organics, metals, radionuclides or other hazardous constituents cannot be estimated without field screening or sampling. However, because the majority of the waste observed was considered domestic in nature, it is highly unlikely that contaminants would be present at levels above risk-based limits.
Block 2 How reliable are the information sources? X High Med Lo(check one)  Explain the reasoning behind this evaluation.
Interviews with INEEL Cultural Resource Management personnel revealed that this historical site indicates no visual evidence of a source. It has been determined that the debris left at the site is domestic in nature and poses no potential threat to human health and the environment.
Block 3 Has this information been confirmed? X Yes No (check one) If so, describe the confirmation.
Interviews held with INEEL Cultural Resource Management personnel confirmed that this site is a cultural resource. Photographs taken during the environmental baseline assessment and walk through surveys did not indicate that there was evidence of a source present.
Block 4 Sources of Information [check appropriate box(es) & source number from reference list]
No available information [] Analytical data [] Anecdotal [X] 5 Documentation about data [] Historical process data [X] 2 Disposal data [] Current process data [] Q.A. data [] Photographs [X] 3 Safety analysis report [] Engineering/site drawings [] D&D report [] Unusual Occurrence Report [] Initial assessment [X] 4 Summary documents [] Well data [] Facility SOPs [] Construction data [] OTHER

Question 4. Is there empirical, circumstantial, or other evidence of migration? If so, what is it?
Block 1 Answer:
There is no evidence of migration. Site investigations reveal no visual evidence of stained or discolored soil areas.  There is no visual evidence of disturbed vegetation. It has been determined that this site contains domestic debris left by early twentieth century homesteaders.
Block 2 How reliable are the information sources? X High Med Low (check one) Explain the reasoning behind this evaluation.
Visual site inspections and photographs of the site show that vegetation is healthy and well established in the area; therefore giving no indication of disturbance, contaminant presence or migration.
Block 3 Has this information been confirmed? X Yes _No (check one) If so, describe the confirmation.
This information was confirmed through site inspections during a 1994 environmental baseline assessment and Cultural Resource survey, revealing no visual evidence of migration. Photographs taken in 1999 of the site show wellestablished vegetation.
Block 4 Sources of Information [check appropriate box(es) & source number from reference list]
No available information  []   Analytical data    []
Anecdotal [X] 5 Documentation about data [] Historical process data [X] 2 Disposal data [] Current process data [] Q.A. data [] Photographs [X] 3 Safety analysis report [] Engineering/site drawings [] D&D report [] Unusual Occurrence Report [] Initial assessment [X] 4 Summary documents [X] 1 Well data [] Facility SOPs [] Construction data [] OTHER

Question 5. Does site operating or disposal historical information allow estimation of the pattern of potential contamination? If the pattern is expected to be a scattering of hot spots, what is the expected minimum size of a significant hot spot?
Block 1 Answer:
There is no expected pattern of potential contamination because there is no evidence of release of any hazardous substances to the site. There is no evidence of stained or discolored soil in the area, odors, or visual evidence of disturbed vegetation. The pattern of potential contamination from organics, metals, radionuclides or other hazardous constituents cannot be estimated without further field screening or sampling, however, given the nature and weathered condition of the debris it is highly unlikely that contaminants would be present at levels above risk-based limits. There are no hot spots expected in the area of the debris pile.
Block 2 How reliable are the information sources? _High X Med _Low (check one) Explain the reasoning behind this evaluation.
This information was obtained from an environmental baseline assessment conducted in 1994, and from a subsequent site investigation conducted by Cultural Resource Management personnel. The investigations gave no indication of the debris containing anything that might cause potential contamination. Photographs taken during the survey show that the vegetation is well established.
Block 3 Has this information been confirmed? XYesNo (check one) If so, describe the confirmation.
This information was confirmed through site inspections, photographs and process knowledge.

Block 4 Sources of Information [check appropriate box(es) & source number from reference list]

[] [X] 3

[]

[]

[]

[]

[X] 1

[X] 5

[X] 2

Analytical data

Disposal data

Q.A. data

D&D report

Well data

Documentation about data

Safety analysis report

Initial assessment

**Construction data** 

[] [] []

[X] 4

[]

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No available information

Historical process data

Engineering/site drawings

**Unusual Occurrence Report** 

Current process data

**Summary documents** 

Anecdotal

**Photographs** 

Facility SOPs

OTHER

Question 6. Estimate the length, width, and depth of the contaminated region. What is the known or estimated volume of the source? If this is an estimated volume, explain carefully how the estimate was derived.
Block 1 Answer:
Site investigations and photographs indicate that the site is approximately 30 ft by 30 ft in area. There does not appear to be a source at this site or contaminated region to estimate because there is no evidence of hazardous or radioactive material. The estimated volume of contamination for organics, metals, radionuclides or other hazardous constituents cannot be estimated without further field screening or sampling; however, given the nature and weathered condition of the debris, it is highly unlikely that contaminants would be present at levels above risk-based limits.
There is a depression located nearby measuring 6 ft by 15 ft. There is no indication of contamination; the vegetation surrounding and within the depression is diverse and well established, indicating lack of disturbance.
Block 2 How reliable are the information sources? _High <u>X</u> Med _Low (check one) Explain the reasoning behind this evaluation.
This information was obtained from an environmental baseline assessment conducted in 1994, and from a subsequent site survey conducted by Cultural Resource Management. The assessments gave no indication that the debris contains anything that would cause potential contamination. Photographs taken during the survey show that the vegetation is well established around the debris.
Block 3 Has this INFORMATION been confirmed? <u>X</u> Yes <u>No</u> (check one) If so, describe the confirmation.
This information was confirmed through site inspections, interviews, photographs, and process knowledge.
Block 4 Sources of Information [check appropriate box(es) & source number from reference list]
No available information [] Analytical data [] Anecdotal [X] 5 Documentation about data [] Historical process data [X] 2 Disposal data [] Current process data [] Q.A. data [] Photographs [X] 3 Safety analysis report [] Engineering/site drawings [] D&D report [] Unusual Occurrence Report [] Initial assessment [X] 4 Summary documents [X] 1 Well data [] Facility SOPs [] Construction data [] OTHER

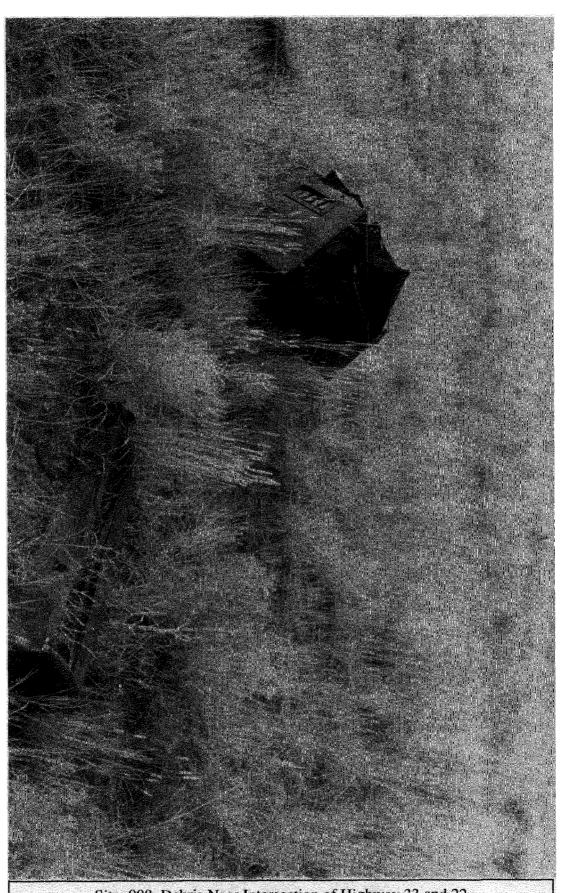
Question 7. What is the known or estimated quantity of hazardous substance/constituent at this source? If the quantity is an estimate, explain carefully how the estimate was derived.			
Block 1 Answer:			
The estimated quantity of hazardous substances/constituents at this site is near zero because there is no evidence of any hazardous or radioactive material present at the site. Because the site consists of domestic debris abandoned by early homesteaders, it is highly unlikely that there are hazardous substances or other constituents present. The estimated volume of contamination for organics, metals, radionuclides or other hazardous constituents cannot be estimated without further field screening or sampling; however, it is highly unlikely that contaminants would be present at levels above risk-based limits.			
Block 2 How reliable are the information sources? _High X_Med _Low (check one) Explain the reasoning behind this evaluation.			
This information was obtained from an environmental baseline assessment, Cultural Resource Management investigation, and photographs. The site assessments revealed no visual evidence of contamination. Photographs taken in 1999 of the site show well-established vegetation, giving no indication of disturbance.			
Block 3 Has this INFORMATION been confirmed? XYes No (check one) If so, describe the confirmation.			
This information was confirmed through site inspections, photographs and process knowledge. The estimated volume of contamination cannot be confirmed without field screening and/or sample data.			
Block 4 Sources of Information [check appropriate box(es) & source number from reference list]			
No available information Anecdotal Historical process data Current process data Photographs Engineering/site drawings Unusual Occurrence Report Summary documents Facility SOPs OTHER	[X] 5 [X] 2 [] [X] 3 [] []	Analytical data Documentation about data Disposal data Q.A. data Safety analysis report D&D report Initial assessment Well data Construction data	[] [] [] [] [] [X] 4 [] [] []
	<del></del>		

Question 8. Is there evidence that this hazardous substance/constituent is present at the source as it exists today? If so, describe the evidence.			
Block 1 Answer:			
There is no evidence that a hazardous substance or constituent is present at levels that require action at this site. However, no field screening or sampling has been conducted at this site for organics, metals, radionuclides, or other hazardous constituents to confirm this.			
Block 2 How reliable are the information sources? _High $\underline{X}$ Med _Low (check one) Explain the reasoning behind this evaluation.			
This evaluation is based on site visitations, and photographs of the area. The site shows no soil staining, and the vegetation present in and around the site appears to be healthy and well established.			
Block 3 Has this INFORMATION been confirmed? XYes No (check one)			
If so, describe the confirmation.  This information was confirmed through site inspections, process knowledge, interviews, and photographs.			
This information was committed infought site inspections, process knowledge, interviews, and photographs.			
Block 4 Sources of Information [check appropriate box(es) & source number from reference list]			
No available information [] Analytical data [] Anecdotal [X] 5 Documentation about data [] Historical process data [X] 2 Disposal data [] Current process data [] Q.A. data [] Photographs [X] 3 Safety analysis report [] Engineering/site drawings [] D&D report [] Unusual Occurrence Report [] Initial assessment [X] 4 Summary documents [X] 1 Well data [] Facility SOPs [] Construction data []			
OTHER []			

#### REFERENCES

- 1. DOE, 1992, <u>Track 1 Sites: Guidance for Assessing Low Probability Sites at the INEL</u>, DOE/ID-10390 (92), Revision 1, U.S. Department of Energy, Idaho, July.
- 2. Interviews with Environmental Baseline Assessment team members, February 6-7, 2001.
- 3. Photographs of Site 008:PN99-0456-2-1 PN99-0456-2-7.
- 4. FY1999 WAG 10 Newly Identified Sites, Volumes I. and II.
- 5. Interview with Brenda Ringe Pace, INEEL Cultural Resources Management (2/7/01).

# Attachment A Photographs of Site 008



Site: 008, Debris Near Intersection of Highway 33 and 22 (PN99-0456-2-1)



Site: 008, Debris Near Intersection of Highway 33 and 22 (PN99-0456-2-2)

